¢		WASHIN AIRCRAFT ACC B	SPORTATION SAFE GTON, D.C. 2059 IDENT/INCIDENT I RIEF FORMAT CIVIL AVIATION	4	
FILE		AIRCRAFT DATA	F S M/N	PUPPOSE	PILOT DATA
3-4137	12/19/77 NR.ANCHOR POINT,AM TIME - 1828	HILLER ACFT FH1100	CR- 1 0 0		COMMERCIAL, AGE 29, 3313 TOTAL HOURS, 631 IN TYPE, NOT INSTRUMENT RATED.
	DEPARTURE POINT HOMER,AK TYPE OF ACCIDENT COLLISION WITH_GROUND/WAI	INTENDED DESTINATION HOMER,AK	S.S.GI Phase oi	REAT LAND	
	PROBABLE CAUSE(S) PILOT IN COMMAND - IMPROF PILOT IN COMMAND - CONTIN PILOT IN COMMAND - SPATIA FACTOR(S) WEATHER - LOW CEILING WEATHER - FOG WEATHER - SNOW WEATHER - ICING CONDITION WEATHER - UNFAVORABLE WIN MISCELLANEOUS ACTS, CONDIT WEATHER BRIEFING - BRIEFED WEATHER FORECAST - FORECAST EMERGENCY CIRCUMSTANCES - U	UED VFP FLIGHT INTO AD L DISORIENTATION S-INCLUDES SLEET,FREEZ DO CONDITIONS IONS - AIRCRAFT CAME T BY FLIGHT SERVICE PERS SUBSTANTIALLY CORRECT	VERSE WEATHER CO ING RAIN,ETC. O REST IN WATER ONNEL, BY RADIO	DNDITIONS	· · ·
	SKY CONDITION OVERCAST VISIBILITY AT ACCIDENT SITE 1/2 MILE CR LESS	· · · · · · · · · · · · · · · · · · ·	UNKNO	AT ACCIDENT SITE NN/NOT REPORTED TATION AT ACCIDENT S	SITE
	OBSTRUCTIONS TO VISION AT A FOG WIND DIRECTION-DEGREES 45	CCIDENT SITE	TEMPERA 33 WIND VE 25	TURE-F LOCITY-KNOTS	
	TYPE OF WEATHER CONDITIONS IFR REMARKS- HELICOPTER FLOAT E	QUIPPED.WINDS GUSTING	VFR	FLIGHT PLAN Amage and pilots inj	UURY PRESUMED.

PAGE 20

	NATIONAL NSPORTATION SAFETY BOARD	PAGE 1	OF 28	PAGES
TRANS	PORTATION MODE [X] AVIATION [ ] HIGHWAY [ ] PIPELINE [ ] INTERMODAL [ ] MARINE [ ] RAILROAD	NTSB FI NC78-F-		îsf
6 Nau 12-19	IFICATION OF ACCIDENT tical Miles on 220 <sup>0</sup> True Bearing from Anchor Point, Alaska -77 nild Hiller FH-1100, N18845			
		NO.	OF PAG	ES
ITEM NO.	DESCRIPTION OF ITEM	DOC.	B&₩ PHOTO	COLOF PHOTO
1.	Accident File Contents (NTSB Form 6120.3)	1		
	Pilot/Operator Aircraft Accident Report (NTSB Form 6120.1)	1		
3.	Factual Aircraft Accident Report (NTSB Form 6120.4)	11		
4.	Letter from U.S. Coast Guard with maps	6		
5.	Statement of Witnesses - 2 each. (NTSB Form 6120.11)	2		
6.	Statement from Air Traffic Control Specialists – 2 each	- 2		
7.	Chemical & Geological Laboratories of Alaska, Inc., Analytical Report	1		
8.	Release of Aircraft Wreckage and/or Parts (NTSB Form 6120.15)	1		
° 3	Photographs 3 p4s, Color 3 k 23 k	3		6
	TOTAL NUMBER OF PAGES	5 28		6

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NTSB Form 6120.3 (Rev. 10/76)

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	<u>x(es) where applicable)</u> NATIC	NAL TRANS				RD			1 OKM	REGISTRAT			DATE O		-R5005	-
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	his form to be used for rej CITY OR PLACE, STATE	Sorting civil	aircraft acc		volvin	g general a	viation a	rcraft			1 100		ZONE	1	17.	-
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AND TYPE OF OPERATION		PURPOSE (Sp	ecify)										TYPE C	OF OPE	RATOR	
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injured on ground)	NIDRINE	HL0	*									-				
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0	If collision accident, complete this item on oth	ber aircraft:	·····		
9. OLLISION	MAKE AND MODEL	REGISTRATION MARK	DAMAGE		
CCIDENT		N	DEMOLISHED	SUBSTANTIAL	
	SOURCE OF INFORMATION (W.B., witness, etc.)		-	WIND	
		CLEAR CEILING AT_		VELOCITYK	 TS., GUSTSKTS.
10.	TURBULENCE (In flight)			VISIBILITY	ALTIMETER SETTING
WEATHER			IGHT NIGHT	(ISIBILITY	ALIMETER JETTING
AT ACCIDENT			ARK NIGHT	MILES	S HG.
SITE	WEATHER CONDITIONS AND RESTRICTIONS TO VISIBILIT	т м	······································	TEMP (*F)	DEW POINT ("F)
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	FLIGHT PLAN FILED?	IF WEATHER WAS INVOLVED, ST CHECKED AND HOW ACCOMPLISH	ATE IF WEATHER BRIEFIN	IG WAS OBTAINED OR	IF WEATHER REPORTS WERE
11.	YES SPECIAL VFR	UNIKALAWAL	@ T41	C TIm	<b>A</b> .
FLIGHT	FUEL ON BOARD AT LAST TAKEOFF DEPARTURE		TIME OF DEPARTURI		<u> </u>
PLAN		lomer	6:20	SS. GR	PUTLANA
ORMATION	OTHER SERVICE, IF ANY, PRIOR TO DEPARTURE	(om one	0,00	1047 17	
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12.	YES NO (IF "YES," LIST THE NAME OF T	THE PART, MANUFACTURER, PART NUM	BER, SERIAL NUMBER, ETC.)		TOTAL TIME
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MAL-	VAIKNOWN	CNOND V	U POCION	۶J	
	DESCRIBE WHAT HAPPENED IN CHRONOLOGICAL O				
	INCLUDE A SKETCH OF WRECKAGE DISTRIBUTION IF TENDED DESTINATION AND SERVICES OBTAINED.				
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Part U - NARRATIVE S EMENT OF PERTINENT FACTS, CONDITIONS, D CIRCUMSTANCES

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History of the Flight

Float equipped Fairchild Hiller, FH-1100 helicopter, N18845, is owned and operated by Totem Helicopters, Inc., Box 357, Homer, Alaska, 99603. On December 19, 1977, it was being piloted by Gary Allen Terry on a non-scheduled air taxi flight. The planned route of flight was to be from Homer, to Anchor Point, to the steam ship (S.S) Great Land located in Cook Inlet, and then return to Homer, Alaska.

The helicopter departed Homer at 1808 AST<sup>\*</sup> with the pilot and one passenger on board. The passenger, a marine pilot, was to disembark on the S.S. Great Land which was enroute to Anchorage, Alaska.

Two witnesses observed a helicopter over Anchor Point at approximately 1820 hours flying in heavy snow with poor visibility.

Mrs. Marjorie Klein, who is a secretary for the Kenai Penninsula Borough, saw a helicopter with its landing light on as it passed low over her car at Mile 157 of the Sterling Highway. She stated that she thought the helicopter was trying to find a place to land because the weather was so bad. She continued to observe the helicopter and saw that the landing light went out; the helicopter made a sharp turn towards the bay (to the north-west) and disappeared in the snow and fog. A witness statement from Mrs. Klein is enclosed and included as part of this report.

At approximately the same time, around 1820 hours, Officer Bruce Bayes who is a Judicial Services Officer employed by the Alaska State Troopers observed a helicopter flying low over Anchor Point. Officer Bayes was also driving on the Sterling Highway He stated that the visibility was so poor due to blowing snow that he had to reduce his automobiles speed and keep his headlights on low beam. With high beams on it was reported there was too much light reflecting off the heavy snowfall creating a blinding effect.

Neither witness could positively identify the helicopter as N-18845.

Captain Harold L. Small, who is the Ship Master of the S.S. Great Land stated that due to encountering poor weather conditions while approaching Anchor Point, he decided to change his ships course from a northerly heading to 120 degrees true in order to run up under land for embarking the marine pilot from the helicopter. The ships original course would have taken it to a point where the helicopter normally rendezvous with the S.S. Great Land which is 4 to 5 miles due west of Anchor Point.

Captain Small advised the helicopter by radio that due to poor weather in the vicinity of Anchor Point he was turning into Kachemak Bay to make the pick up in the "bluff area" about 2/3rds of the way from Anchor Point to Homer. The helicopter pilot then advised Captain Small that he was hovering in the area of Anchor Point. Captain Small suggested to the helicopter pilot that he fly down to and then out from the bluff area to meet up with the ship because the weather was better there. About ten minutes later Captain Small observed the helicopter on the ships radar heading generally toward the ship in a southerly direction. This would place the helicopter out over Cook Inlet.

Captain Small advised the helicopter pilot that he had him on radar. The pilot requested a vector to the ship which Captain Small furnished. The helicopter was

\* All times are Alaska Standard Times based on the 24-hour clock.

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## PART U-NARRATIVE STATEMENT OF PERTINENT FACTS, CONDITIONS, AND CIRCUMSTANCES (Cont'd)

observed drifting westerly from a southerly course. When advised by the S.S. Great Land, that he was drifting off course, the helicopter pilot radioed the ship that his "compass was out". It is not known exactly what the helicopter pilot meant by that transmission or just what the specific problem was. A short time later, the helicopter pilot stated he could not find the ship and asked for a vector back to the beach. Captain Small gave a vector of 080 degrees magnetic.

The next transmission was "MAYDAY" received two times in rapid succession. One MAYDAY was received on the airborne frequency of 123.6, and the other was received on Marine band VHF.

According to Captain Small, shortly after the distress call the helicopter disappeared from the radar screen. Captain Small fixed the helicopters position to be over water on a true bearing of 220 degrees, 6 miles from Anchor Point.

The S. S. Great Land, the U.S. Coast Guard Cutter Sedge, numerous commercial fishing vessels, two Coast Guard C-130 airplanes and one Coast Guard HH3F helicopter were on scene in the search area within a very short time. Helicopter N-18845, could not be found.

#### Injuries to Persons

The pilot of the helicopter has not been found and he is presumed to have received fatal injuries. The passenger of the helicopter received fatal injuries. The passengers body was found the morning after the accident at 1035 hours by the USCG Cutter Sedge. The body was in a yellow, EAM-5, five man life raft that was carried aboard N-18845. The life raft was located at coordinates 59 38.5N, 152 02.8W and was partially filled with water.

#### Damage to Aircraft

The aircraft is missing and is presumed to have been destroyed. The only portion of the helicopter that was found was the right pontoon. The USCG Cutter Sedge retrieved the pontoon from the water at coordinates 59 43.1N, 152 03W at 1156 hours the morning after the accident.

#### Personnel Information

The pilot was born on March 23, 1948, and resided in Homer, Alaska. He held a Commercial Airman Certificate and is rated in airplane single engine land and sea, instrument, and helicopter, rotorcraft. He was not instrument rated in helicopters. He held a current Second Class Medical Certificate dated November 4, 1977, with no limitations.

The last entry in the pilot's log book was September 10, 1977. With additional information from the operator of Totem Helicopters, Inc., it has been determined the pilot had a total of 3,313 hours total flight time, 2,916 of which was in helicopters. Between September 10th and December 19, 1977, the pilot flew 150 hours.

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#### PART U-NARRATIVE STATEMENT OF PERTINENT FACTS, CONDITIONS, AND CIRCUMSTANCES (Cont'd)

The pilot had 631 hours in the FH-1100 helicopter. His log book reflects 10 hours of actual instruments, 127 hours of instrument simulator time and 160 hours of night time.

The pilot had passed a CFR Part 135.138 checkride on March 15, 1977, in the Fairchild Hiller FH-1100 helicopter.

The pilot had been employed by Totem Helicopters since March 1977. Prior to that time he had flown for Sea Airmotive, Inc., out of Anchorage, Alaska.

The pilot's log book indicates he had flown 1,553 hours in helicopters as a U.S. Army Aviator between March 1969, and December 1971.

#### Aircraft Information

The aircraft has not been recovered; however, an inspection of the aircraft and engine log books indicate that it was being maintained in accordance with current and applicable Federal Aviation Administration (FAA) regulations.

After the accident there was a question raised as to whether or not any radio equipment had been removed from N-18845 for repairs which could be considered contributory or otherwise related to the accident. On the evening of December 23, 1977, this investigator talked by telephone with Mr. Thomas Mayhan, who is employed by South Central Radar in Homer, Alaska. He stated that he had removed the marine band Very High Frequency (VHF) radio from N-18845 previous to the flight on December 19th and further stated that the pilot had checked out the aircraft Automatic Direction Finder (ADF) and Radio Altimeter, and that they were functioning normally. It was also reported that the power pack supplying the A.D.F. was working properly.

The aircraft was equipped with the following emergency equipment:

- 1. Sharc 7 Emergency Locator Transmitter (ELT) located under the pilot's seat. Maintenance records dated October 11, 1977, indicate ELT battery out of date October 1977.
- 2. One Eastman Aero Marine (EAM-5) five man life raft equipped with sea anchor, heaving line and raft lanyard; raft light with water-activated batteries; survival kit with signal flares, rations, compass, signal mirror, 2 paddles, gloves, line, bailing bucket, police whistle, inflating pump, and several other items to sustain survival at sea. The life raft canopy was not on board the helicopter. It was reported that the raft light was illuminated and blinking when retrieved from the water; however, it was extremely weak.

## PART U-NARRATIVE STATEMENT OF PERTINENT FACTS, CONDITIONS, AND CIRCUMSTANCES (Cont'd)

3. There were enough standard airline type CO2 inflatable vests for each person on board the aircraft. The marine pilot was wearing his own, personal Mae West life vest at the time of the accident.

NOTE: The life raft, survival kit, and four life vests were inspected and repaired as necessary by Eagle Enterprises, Inc., in Anchorage, Alaska, on October 12, 1977. According to the inspection checklist there was no radio beacon on the raft.

Dual controls were not installed in the aircraft. It was equipped with cargo racks on top of the fixed floats and a cargo hook. It was reported the floats were rebuilt by Garrett in 1975, and that they were in excellent condition. The aircraft had an "auto-relite" capability in the event of engine failure (flame-out) which could be caused by excessive snow or precipitation entering the engine. A landing light, fixed at a 45° angle to the aircraft longitudinal axis was installed and reported to be operational. Seat belts were installed in the aircraft. There were no shoulder straps.

The aircraft had the following communication and navigational radios:

- 1. KY95 VHF transceiver radio.
- 2. Marine 10-channel, 30 watt, VHF radio. Note: This radio was out of the aircraft for repairs at the time of the accident.
- 3. Sensitive altimeter.
- 4. Bonzer Mark 10 radar altimeter with decision height beeper.
- 5. KR86 ADF.
- 6. Humphrey Gyro (electric). Note: This gyro received a warranty check three months prior to this accident.
- 7. Magnetic (stand-by) compass.
- 8. Turn and Bank Indicator. (Maintenance records indicate the turn and bank to be inoperative.)
- 9. Rate of Climb Indicator.

The pilot could easily switch from airborne to marine band VHF transmitters by flipping a toggle switch (2-position) on the lower console between the pilot and co-pilot seat.

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#### PART U-NARRATIVE STATEMENT OF PERTINENT FACTS, CONDITIONS, AND CIRCUMSTANCES (Cont'd)

It was reported that the passenger carried a hand held portable marine band VHF radio with transmit, receive capability. This would explain the two "MAYDAY" transmissions, one on the airborne radio; the other on marine band.

The passenger in the left front seat did not have access to a headset nor did he have the capability of transmitting on the aircraft VHF radio. The aircraft VHF receiver was connected to a speaker.

Since it is not known what deficiencies may be pertinent to the accident, below is a list of uncorrected faults up to an aircraft tach time of 66.4 hours. The tach time of 66.4 was given by the operator as the time of the accident.

- 1. Weight on tail rotor guard missing.
- 2. Check RPM trim for proper range.
- 3. Marine VHF weak. (This radio was removed for repairs and not aboard the aircraft.)
- 4. Rubber on throttle grip slips.
- 5. Radio altimeter inoperative over snow. (The operator stated that he and the pilot discussed this discrepancy, and it was mutually understood that this problem only occurred over snow covered terrain, not over water.)
- 6. Turn and Bank inoperative.
- 7. Heater goes off when switched from low to high.
- 8. Filter light stays on. (Fuel filter.)

The operator gave this investigator a note which he stated was in the pilot's hand writing that had been found in the operator's daily record. It stated, "Dec 8 ODECO 8:30 P.M. Call AAI for Ocean Ranger - called Tommy (Tommy Craig) Ak. Helicopters - fuel filter light came on in flight - went off on landing. O.K. for now."

This investigator talked to Mr. Craig at Alaska Helicopters on December 23, 1977, and was furnished the following information.

The aircraft is equipped with a dual bypass filter system. The 1st stage airframe filter is a 25 micron filter. The 2nd stage is located inside the airframe filter and it utilizes a 50 micron filter.

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#### PART U-NARRATIVE STATEMENT OF PERTINENT FACTS, CONDITIONS, AND CIRCUMSTANCES (Cont'd)

The airframe fuel filter micro switch and valve was replaced on October 15, 1977. The aircraft total time was 2076.4. A 5 micron filter was installed in the engine fuel pump on September 2, 1977. The aircraft total time was 1976.3.

This type of aircraft is equipped with engine anti-ice utilizing bleed air from the engine. This helicopter does not have any other anti-ice or de-ice capability. It did have a reverse scoop for air entering the engine. This reverse scoop was designed primarily to minimize the possibility of engine flame-out which could be caused by flying through heavy precipitation.

Weight and balance is not considered to be a factor contributing to or being related to this mishap. Besides the passenger in the front seat, the only other items reported to be on the helicopter were the previously mentioned pieces of emergency equipment.

The operator reported that the aircraft had 62 U.S. gallons of Jet-B fuel on board at last takeoff.

#### Meteorological Information

When the pilot filed a VFR flight plan with Homer FSS via the aircraft VHF radio, he received the following weather: Homer - cloud condition 1,700 feet scattered, 2,500 feet overcast, no visibility reported. The first official weather reported by Homer FSS subsequent to notification of the accident was: Clouds 1,700 scattered, estimated 2,300 broken, 5,000 overcast, visibility 7 miles in light snow, millibar pressure 1017.9, temperature 26, dewpoint 19, wind 340° at 4 knots, altimeter setting 30.06 inches of mercury. Remarks - wind on the Homer Spit 060° magnetic at 7 knots.

Weather reported by the S. S. Great Land in the vicinity of the accident site and at the time of the accident was: Visibility zero to one-half mile in snow and fog, wind out of the northeast at 25 - 30 knots, seas slight. It was reported by the USCG that the wave height at the accident site was 3 to 5 feet, water temperature 36 F and the air temperature was  $33^{\circ}$ F. Information received from the U.S. Coast Guard HH3F helicopter indicated that they encountered heavy snow and moderate aircraft icing at the accident site. The USCG helicopter from Kodiak, Alaska, was on-scene within 40 minutes of the time of the accident.

When Officer Bruce Bayes of the Alaska State Troopers saw the helicopter over Anchor Point, he stated the weather to be heavy snow, visibility less than one-half mile, with strong winds out of the north.

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The light condition was dark night.

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#### PART U-NARRATIVE STATEMENT OF PERTINENT FACTS, CONDITIONS, AND CIRCUMSTANCES (Cont'd)

#### Aids to Navigation

As mentioned in the witness statement given by Captain Harold L. Small, the S. S. Great Land has the capability of emitting a 410 kilocycle signal which would enable the helicopter pilot to "home" to the vessel with the helicopter ADF. Captain Small stated that after the helicopter was picked up on radar and given a vector, the pilot requested the radio beacon. The Great Land radio operator immediately transmitted the 410 kilocycle signal but the helicopter pilot advised he was not receiving it. The signal was then sent using maximum transmission strength.

The helicopter pilot came back and advised the ship that he was still not receiving the signal. Possibly, this is what the pilot was referring to when he radioed the ship and said, "my compass is out".

#### Communications

The FSS at Homer received "MAYDAY, MAYDAY Helicopter 845, 6 west Anchor Point" at 1828 AST, and the S.S. Great Land received "two quick MAYDAYS over VHF" (marine band radio) at the same time. This would indicate the pilot transmitted on the airborne VHF, while the passenger transmitted on his hand held portable marine band VHF.

#### Wreckage and Impact Information

The aircraft is missing. The only portion of N18845 that was recovered was the right pontoon and several small pieces of plexiglass that were caught in a fold of the floats canvas. A metal tube which runs inside a canvas sleeve on top of the float was bent approximately 18<sup>0</sup>. The bend was near the aft portion of the tube which would indicate the aircraft impacted the water in a relatively nose high attitude. Deformation to the float and metal tube also indicate impact to be relatively level in relation to the roll axis of the helicopter. Impact velocity can not be accurately determined; however, due to the absence of any impact injuries on the passenger, this would indicate impact velocities between minor and moderate. Either the pilot or the passenger was able to inflat the emergency raft and then the passenger was able to get in it.

#### Medical and Pathological Information

An autopsy and toxicological study was performed on the passenger by Donald R. Rogers, M.D., Pathologist, at the Walsh Mortuary in Kenai, Alaska. There was nothing noted in the autopsy or toxicological screen that could be considered contributory to the accident. The cause of death was diagnosed as drowning due to possible hypothermia. When the life raft was found, there was water inside of it.

Part U - NARRATIVE ST MENT OF PERTINENT FACTS, CONDITIONS, A . CIRCUMSTANCES

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#### Survival Aspects

Based upon the fact that the passenger had no impact injuries; he was able to exit the helicopter; inflate the life raft, and get into it; this accident must be classified as survivable.

Intense search and rescue efforts began immediately after the distress call was received by two Coast Guard C-130 aircraft. A Coast Guard HH3F helicopter, a Coast Guard Cutter, the S.S. Great Land, and numerous commercial fishing vessels from the Homer and Soldotna area aided in the search.

The only logical reason why the life raft was not spotted on the evening of the accident is because of heavy snow and drastically reduced visibility. Neither Coast Guard C-130 airplane was able to pick up an ELT signal in the vicinity of the accident and was therefore unable to pin-point the helicopters location.

It was reported that the emergency life raft was of such a size that it could easily be carried between the passengers feet on the left side. This is also due to the fact that the dual controls were not installed. It is not known whether this kit was in the front or in the back on this particular flight. The raft had a lanyard which the passenger could have hung on to (its intended purpose) which may have made it easier for the passenger to reach the raft once in the water and then to inflate it.

Based upon the U.S. Coast Guard report which is enclosed and included as part of this report; the life expectancy for a man in the water, given on-scene conditions, was two hours.

### Tests and Research

A fuel sample was taken from the fuel tank that N11845 refueled from prior to this flight. It was analyzed at Chemical and Geological Laboratories of Alaska, Inc. in Anchorage, Alaska. Their report indicates the sample met the necessary specifications for Jet-B fuel. That analytical report is enclosed and included as part of this report.

No additional information at this time.

THIS REPORT CONSISTS OF II PAGES.

Part V – ADDITIONAL PERSONS PARTICIPATING IN THIS INVESTIGATION NAME, ADDRESS, AND AFFILIATION

Peter E. Beckner - Principle Operations Inspector, FAA, GADO-1, Anchorage, Alaska

	Part W – INVESTIGATED	
DATE	AGENCY	SIGNATURE T. C. SOOO
03-28-78	National Transportation Safety Board	Jon L. Osgood, Investigator



# DEPARTMENT OF TRANSPORTATION UNITED STATES COAST GUARD

MAILING ADDRESS: Commanding Officer USCG Air Station Box 33 FPO Seattle 98790

16100 **9** February 1978

From: Commanding Officer, USCG Air Station, Kodiak, Alaska Mr. Jon L. Osgood, Air Safety Investigator National To: Transportation Safety Board, Anchorage, Alaska Via: Commander, Seventeenth Coast Guard District (osr)

Subj: Totem Helicopter FH-1100 Crash, information concerning

Ref: (a) NTSB 1tr to CGAS Kodiak dtd 28 DEC 77

In response to reference (a) the following information has been 1. taken from the case folder on the Anchor Point Totem Helicopter crash (CGK-065) (UNC-047 (MUCN-0027).

a. COGARD COMMSTA Kodiak recieved initial notification of subject aircraft crash at 191838 local DEC 77 from the M/V Great Land/WNDF via MF CW.

- The aircraft involved and hours flown on SAR were: Ъ. 1. HC130 CG 1500 (fixed wing) 1 Sortie 2.0 hrs
  - HC130 CG 1503 (fixed wing) 1 Sortie 2.5 hrs 2.
  - 3. HH3F CG 1493 (Helicopter) 2 Sorties 7.8 hrs

Chronological order of aircraft movement (all times local) c.

- 191840W HC130 CG 1500 diverted to scene for SAR 1.
- 2. 191850 CG 1500 arrived on scene
- 3. 191909 HH3F CG 1493 airborn from Kodiak enroute scene
- 4. 192008 CG 1493 arrived on scene
- 192008 CG 1500 dptd scene enroute Elmendorf to refuel 5.
- 192042 CG 1500 arrived Elmendorf RON 6.
- 7. 192225 CG 1493 dptd scene enroute Kenai to refuel
- 192304 CG 1493 arrived Kenai RON 8.

200822 HC130 CG 1503 airborn from Kodiak enroute scene 9.

- 10. 200845 CG 1493 airborne from Kenai enroute scene
- 11. 200905 CG 1493 arrived on scene
- 12.
- 200917 CG 1503 arrived on scene 201058 CG 1503 dptd scene enroute Kodiak 13.
- 14. 201119 CG 1493 dptd scene enroute Kodiak
- 15. 201200 CG 1503 arrived Kodiak area
- 16. 201232 CG 1493 arrived Kodiak

Subj: Totem Helicopter FH-1100 Crash; information concerning

d. Local Weather for Anchor Point:

					T <u>D</u> T			
	TIME:	WIND:		SEAS:	AIR:	SEA:	VIS:	REMARKS:
(1)	192350W	NE 2	5-30 kts	3-5 ft			0-4 mi	Snow Showers
(2)	200831	NW	12 kts	2-4 ft	33F	36F	¹₂ mi	Snow Showers
(3)	201017	NNE	21 kts	3-5 ft	31F	42F	½ mi	Snow Showers
(4)	201235	N	18 kts	2-4 ft	31F		l mi	Snow Showers
(5)	201745		18 kts	2-4 ft	31F	42F	3/4 mi	Snow Showers
(6)	ICING:	See Par	agraph (g)	•				

TTIMD .

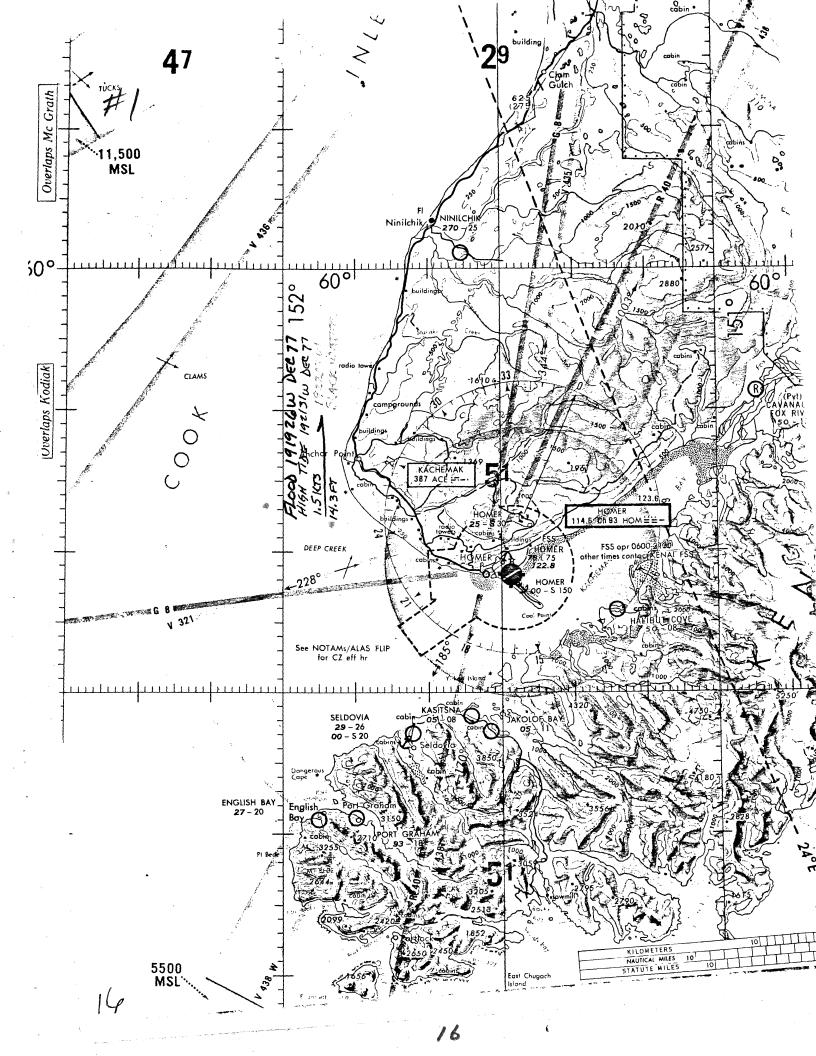
e. Tides/Currents off Anchor Point:

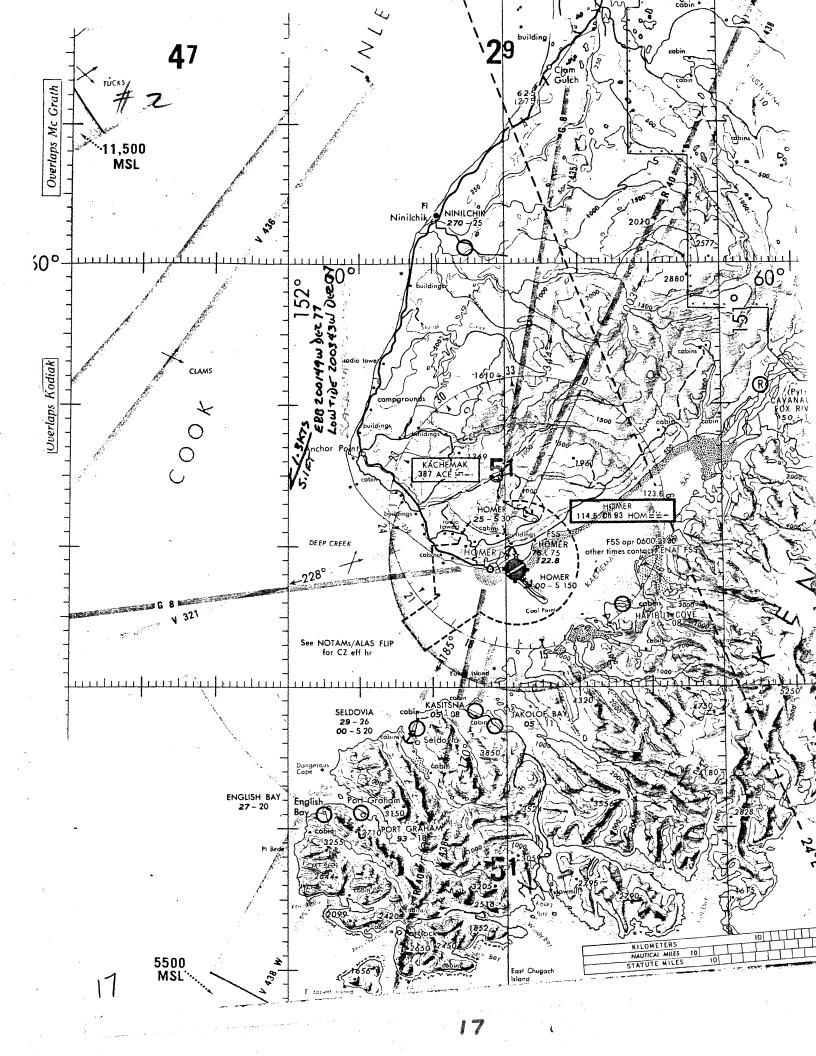
(1)	19 DEC (MON)	0235W 0838 1546 2131	4.4 ft 17.2 ft 2.8 ft 14.3 ft		(TUE) 0343W 0934 1649 2240	5.1 ft 17.3 ft 1.9 ft 15.0 ft
(2)	19 DEC	1638W 1926	Slack Flood	1.5 kts	Direction of F Degrees True	100d 000
		2251	Slack			
	20 DEC	0149	ЕЪЪ	1.3 kts	Direction of E Degrees True	ЕЪЪ 195
		0435	Slack			
		0744	Flood	1.7 kts		
		1035	Slack			
		1451	Ebb	2.0 kts	·	
		1712	Slack			

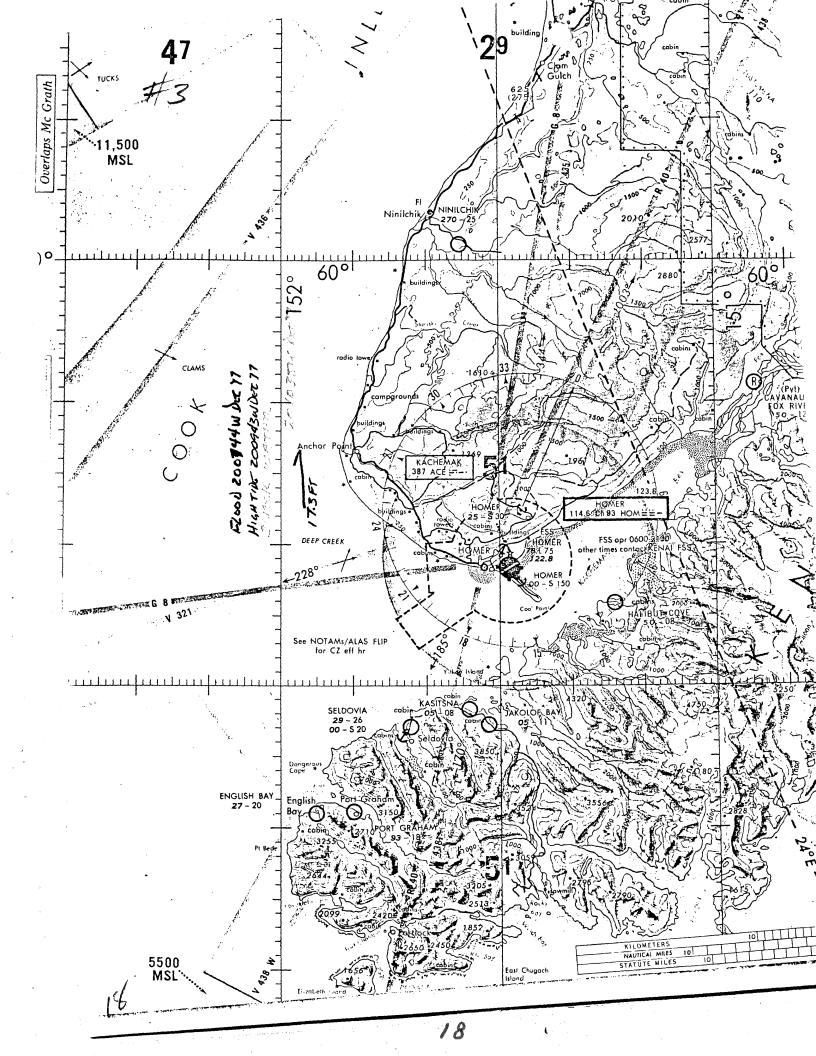
f. Due to an extensive search of debris area conducted by Coast Guard aircraft and surface units, after recovery of liferaft resulted in negative significant findings, the life expectancy for a man in the water given on-scene conditions was two hours, the on-scene weather was not conducive for search, and the low probability of locating further survivors or debris, Coast Guard Air Station Kodiak requested suspension of Case at 201745W DEC 77 pending further developments. Official case suspension permission was given by NORPACSARCOORD Juneau at 201915W DEC 77 pending further developments.

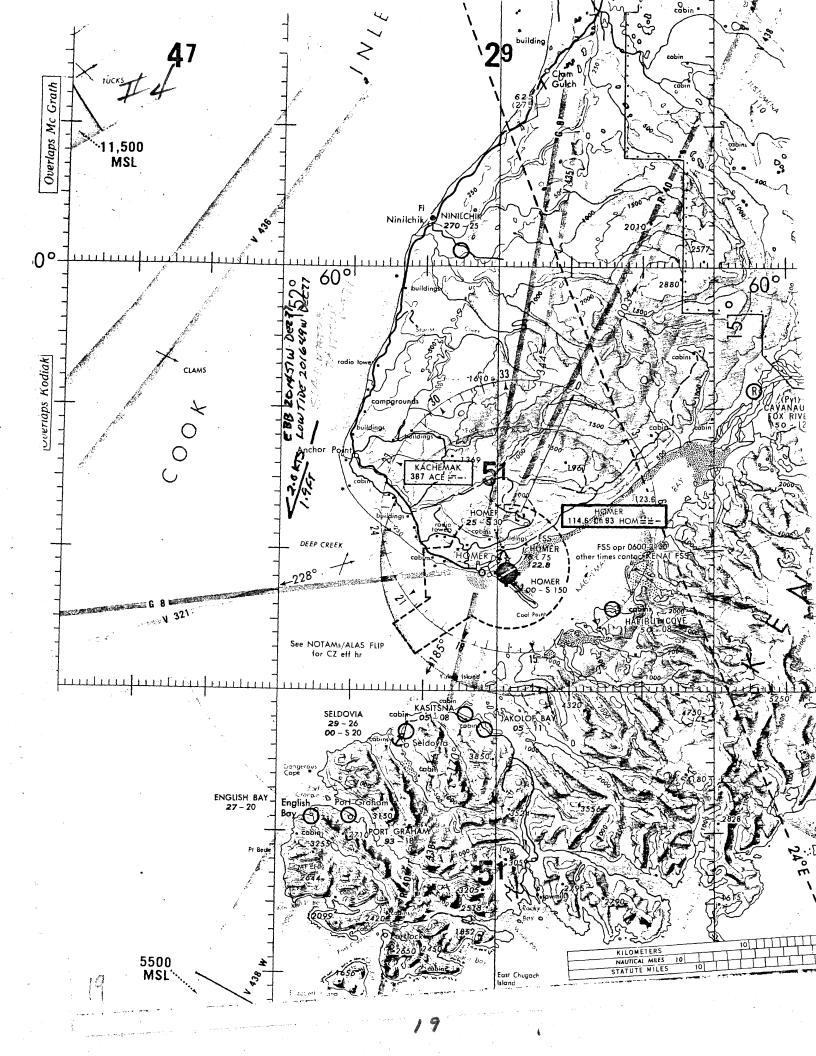
g. Icing conditions at Anchor Point search area described by Coast Guard Helicopter 1493 Aircraft Commander as moderate for HH3F model helicopter but would probably be worse for the Totem helo.

**ÉCDR V. VILKAS** By direction









#### NATIONAL TRANSPORTATION SAFETY BOARD

DEPARTMENT OF TRANSPORTATION

WASHINGTON, D.C. 20591

# STATEMENT OF WITNESS

The purpose of this statement is intended solely for use in determining the facts, conditions and circumstances, and the probable cause of the subject accident.

	Date 23 Dece	mber, 1977
I. Place of accident Anchor Point, Cook Inletate	19 December, 1977	Hour <u>1830</u>
II. Aircraft Tote Helicopter FAA Certificate No.		
III. What is your name Harold L. Small	Age	55
IV. Address McFarland Shores, New Harbor, Mar	ine 04554	
V. Occupation Ship Master By w	hom employed _Interoce	an Management Corp

VI. Where were you at the time of the accident On bridge of S.S. Great Land

VII. Tell in your own words what you saw or heard before and at the time the accident occurred.

POINT At approx 1815 hours on 12-19-77 while approaching Anchor to pick up pilot to Anchorage, I changed vessels course to 120 degrees true to run up under land for embarking pilot from Helicopter, due to heavy snow and  $N^E$  wind approx 30-35 knots. Shortly thereafter I picked up helicopter bound to vessel from Anchor Point. I confirmed to Helicopter that I had them on radar and gave a magnetic compass vector from their position to vessell, approx 160 mag. Vessel also gave at their request a radio keyed signal for their RDF. Helicopter undable to pick up our signal. Signal strength increased however helicopter unable to receive. Helicopter then noted on radar screen to be drifting off course to the west. I advised helipilot of this situation advising to correct to his left. Helicopter then advised that his compass was out, and requested a vector back over Anchor Point. I gave 080 degrees magnetic but noted that helicopter was continuing approx due west. At 1830 helicopter called out two quick Maydays over VHF. I immediately pletted Helicopters position on radar, range 6.0 miles, bearing 220 degrees out from Anchor Point and brought ship around in a tight turn to the right heading to helicopters position. A few moments later helicopters blip disappeared from the Radar Screen. A WHF message was immediately dispatched to the USCG and to the helicopter base, giving details. Vessel engaged in search through to 0803 hrs., 12-20-77 when reliefed by USCG Cutter Sage.

NTSB Form 6120.11

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(Use reverse side of sheet for diagram and additional statement)

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GPO 930-009

#### NATIONAL TRANSPORTATION SAFETY BOARD

DEPARTMENT OF TRANSPORTATION

WASHINGTON, D.C. 20591

## STATEMENT OF WITNESS

The purpose of this statement is intended solely for use in determining the facts, conditions and circumstances, and the probable cause of the subject accident.

I. Place of accident anchor toist al. Date \_ Dec. 19, 1977\_\_\_\_ Hour 6:20 pm. II. Aircraft \_FH\_1/00\_\_\_\_\_ FAA Certificate No. \_\_\_\_\_ III. What is your name Marjoric Klein Age 38 IV. Address Boy 62 anchon Point, ak. 99556 V. Occupation \_ Secretary\_\_\_\_\_ By whom employed \_ Kenter ferresular Bowley VII. Tell in your own words what you saw or heard before and at the time the accident occurred. about 6:15-6:20 p.m. Monday nite I was driving down the highway toward Homer I was about in prout of the Oucho River Inn when I saw a live light coming from the shy about I mile down the road. after a little liet he turned off the light and I could see the blue aircraft light so I knew it was a plane. I then drove to bob moores have about a mile from anchor Point and was in their drive way facing anchor Point. It wasn't too long until I saw The blue light coming toward the car and about even with grines driveway the blue light turned sharply toward the bay - north west, I turned the car around and the air crift was still heading toward the bay when it disappeared the prow + fog. It was proving very heavily the mision was very poor. I prew when it turned it helicopter. Tarjarie Klem

NTSB Form 6120.11

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(Use reverse side of sheet for diagram and additional statement)

GPO 930-009

### DEPARTMENT OF TRANSPORTATION FEDERAL AVIATION ADMINISTRATION

Flight Service Station Homer, Alaska

December 22, 1977



At 0428 I heard N18845 declare "Mayday Mayday, Helicopter 845 6W Anchor Point". The transmission was very quick and the last portion was somewhat muffled and garbled but understandable. The aviation VHF radio in N18845 was generally not clear but with experience in listening to it, it was generally understandable.

The pilot's voice was not noticeably excitable, but the transmission was very quick and there was no further contact or signal from N18845. It was definitely not a panicky transmission, just quick.

Holam

JAMES HOLCOMB JH ATCS, Homer FSS

### DEPARTMENT OF TRANSFORTATION FEDERAL AVIATION ADMINISTRATION

Flight Service Station Homer, Alaska

December 23, 1977

2'



I, Thomas M. O'Neill, while working Pos. B at Homer FSS; heard "Mayday 845".

The transmission was quick and precise; although it did trail off at the end. There was no sign of fright or panic in his voice and the transmission came across loud and clear.

Alle.

THOMAS M. O'NEILL ATCS, Homer FSS то

CHEMICAL & GEOLOGICAL LABORATORIES OF ALASKA, INC.



TELEPHONE (907) 279-4014 P.O.BOX 4-1276 ANCHORAGE, ALASKA 99509

4649 BUSINESS PARK BLVD.

## **ANALYTICA L REPORT**

PRODUCT: JET B

TANK NUMBER: \_\_\_\_\_ Fuel Tank that refueled FH-1100 N18845

DATE: \_\_\_\_\_ December 26, 1977

OTHER: NTSB# Anc 78 FA005

P.O. NUMBER: \_

LAB NUMBER: 7063

General Characteristics

Parameter	Results	<u>Jet A-50</u>	<u>Jet B</u>	<u>Av 80/87</u>	<u>Av 100/130</u>	<u>Other</u>
Specific Gravity 60/60°F A.P.I.° Color (Saybolt) Flash, °F Freeze Point, °F Reid Vapor Pressure, 1bs WSIM	<u>0.7655</u> <u>53.35</u>  2.4	Report 39-51 +12 100-150 Max -50  Min 85	•	Report Report  5.5-7.0	Report Report  5.5-7.0	
			the second se			

**RESULTS:** 

XX Meets specifications for product checked above.

[] Does not meet specifications for product checked above and violation circled. ENGLER DISTILLATION DISTILLATION GRAPH Jet A50 Jet B 80/87 100/130 OTHER

OTHER Temperature, \*F. Recovery, P rpt rpt rpt 148 IRP 700 219 5 400 167 rpt 167 234 10 ..... 2<u>40</u> 600 15 10+50% Min 246 20 307 250 500 25 254 30 258 35 400 264 40 ..... 266 45 450 370 221 221 270 300 SO 274 Tem 278 60 200 <u>282</u> ..... 65 288 ..... 70 100 294 75 300 8O 310 85 500 275 470 <u>336</u> 390 20 30 40 90 0 10 50 60 70 80 90 95 . Percent Recovery 452 E.P. Jet A-50 Av 80/87 Av 100/130 338 Jet B CT:IER rpt 550 l 338 98.0 - - -Recovery, % ..... 0 1.5 1.5 1.5 idue. 2.0 1.5 1.5 1.5 24

	Part 1	
DEPARTMENT OF TRANS NATIONAL TRANSPORTATION		Accident identification number
RELEASE OF AIRCRAFT WRECK	AGE AND/OR PARTS	78FAØØ.
1. X Release of aircraft wreckage	2. 🔲 Receipt of material	
3. Registered owner or owner's authorized agent	4. Investigator in charge or engineering Div.	
Name	Name	
ROSEMURGY & CO., INC.	JON L. OSGOOD	
Address	Address	
424 THIRD AVE. W.	632 6TH. AVE. RM. 45	-4
City and State	City and State	
SEATTLE, WA. 98119	ANCHORAGE, AK. 99.	501
5. Aircraft identificati	on, date, and location of accident	
Registered owner	Registration No.	
TOTEM HELICOPTERS, INC. HO	MER, AK, N 18845	
Make	Model	
FAIRCHILD HILLER	FH - 1100	
Date of accident	Location	
12/ 19/ 77	NEAR ANCHOR POINT.	ALASKI
6. National Transportation Safety Board 🗋 has, 🗶 has not complet		
7. All wreckage except that listed below in box 11 is hereby released insert NONE.	Here and the second	parts are retair
8. NTSB representative's signature	Title AIR SAFETY Date	
Jon L. V savod	1,2,	129/17
JON L. OSGOOD	INVESTIGATOR	~7///



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#1. This photo shows all that was recovered from Helicopter N-18845. The EAM-5 five man life raft was partially filled with water when found. When the right float was retrieved from Cook Inlet it was buckled and folded in the center. Several small pieces of plexiglass fell from the fold in the canvas when it was laid out on the deck of the U.S. Coast Guard Cutter Sedge. The metal float tube (left side of photo) was just barely attached to the end of the float as it was pulled from the water.



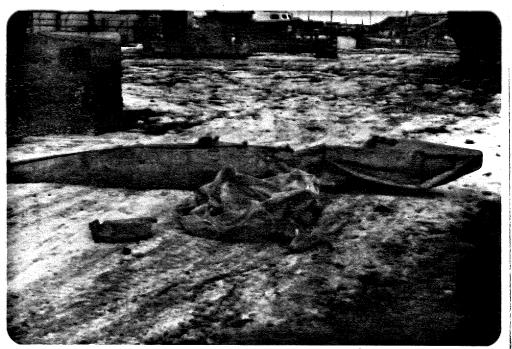
#2. Closeup of identifying numbers on the emergency life raft. This serial number matches the number of the raft inspected by Eagle Enterprises, Inc., in Anchorage, Alaska, on 10-12-77, which was placed in N-18845.



#3. Photo showing inboard side of right float and metal float tube.



#4. Closeup of mid-section of inboard side of right float.



#5. View showing outboard side of right float.



#6. View showing where metal float tube is normally positioned inside of canvas sleeve running down the top of the float. Note where bend in tube and tear in canvas sleeve match up. This would indicate the helicopter impacted relatively nose high.